THE PLOTTER

CLACKAMAS COUNTY AREA T/S USERS GROUP NEWSLETTER

VOLUME 3   NUMBER 4

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MEETING

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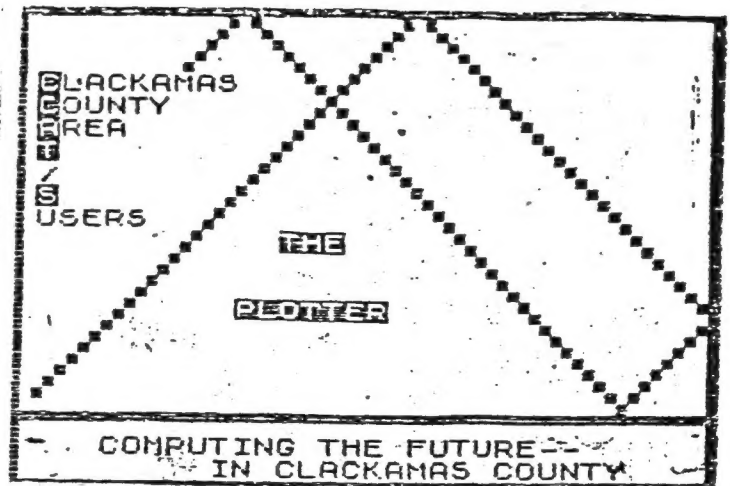
The next CCAT/S meeting will be:

on: Thursday, April 4
at: 7:30 P. M.
in: Community Room
    Far West Federal S & L
    Oregon City Sh/Center

Barring any problems, we hope to see all of you there. See the notes elsewhere in this issue to find out some of the doings at the April meeting.

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SECRETARY'S SECRETS---

At our March meeting, late though it was, we managed a turnout of 16 people. The meeting was called to order at 7:35, by Chairman Dick Wagner, back from his trip to warmer(?) climes. We did not have enough members present for a quorum so we just had a general meeting with Dick giving a talk on soft-ware piracy and why it hurts all of us sooner or later. After some general discussion we adjourned to talk and look at any H/W and S/W that was present. See you all at the next one....

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COMPUTING THE FUTURE IN CLACKAMAS COUNTY

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WHAT YOU'LL FIND -IN THIS ISSUE-

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Use the POWER within your reach!

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FROM THE
CHAIRMAN'S
COMPUTER--

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FROM THE CHAIRMAN'S COMPUTER
Dick Wagner

I hope this issue of the PLOTTER will have some new contributors. Many member of CCAT/S have purchased various word processor programs. How about using one to produce an article, program, complaint, compliment, or just a few lines for the next issue? Some subscribers to our publication do not live in the meeting area of our group. We would like to hear from them. We would also like to hear from members of other user groups.

No doubt some readers are getting tired of reading my style of writing and my subjects to write about. How do I come up with such ideas, anyway? Books, magazines, other news letters, and discussions with other keyboard buffs all generate questions of how to do something on the computer. Will it work with Sinclair BASIC? How do I set up a program to get the desired result? Programs for other makes of computers can sometimes be converted. My point is that a gem of an idea sometimes pops up from such doings. My wife has a different thought on this- I do it because it can't be done. My discussion of the A&J micro drive is generated by trial and error over a period of time.

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A SPECIAL THANKS

We should all extend a big vote of thanks to Bob Evans for his time in typing into his computer some of the program listings from ZX Computing. He says that he learns a lot about how these programs work and how to adapt various routines for use in other programs. Maybe he should be thanking us!!!

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BITS and BYTES

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A & J MICRODRIVE- says that the Parallel I/F for the 2000 will be out the end of March. It should be out as you read this.

RAMEX- is to date about 6 weeks behind schedule in the release of their new disc drive system. We can only hope that the wait is worth it. We should have first hand feedback, as Dennis Jurries has one of these units on order.

AERCO- is not doing any better at meeting it's shipping schedule, as they are about 8 weeks behind on the promised date of delivery for the disc drive for the 2068.
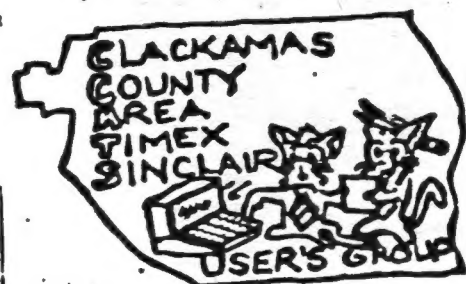
SPECTRUM ROMS- those of us who oreered the items from England have received most of the products. There will be a few more of us who will soon be able to run Spectrum software on our 2068's.

NEWSLETTERS- are still coming in at the library. We are receiving NL's from several new sources and wish to thank these groups for the always welcome news from T/S land.

If any of you have a small piece of news or information that you think would be of general interest, please get it to us for this column.

MORE NEWS NEXT TIME?-----

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CLACKAMAS
COUNTY
AREA
TIMEX
SINCLAIR
USER'S GROUP

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HARDWARE REVIEW

by Dennis Tomlin

The Zenith Data Systems monochrome video monitor is a partial solution to the problem of eye fatigue that comes from spending countless hours hunched over the keyboard of your P.C.

The monitor is connected directly to the T/S 2068 using the video output located on the back of the computer. Since The monitor is equipt with an RCA type input it is not necessary to purchase a special cable, you may use the same cable that is furnished with the 2068.

There are two different display modes available to the user. The 40 column mode is used for most applications and games, and provides a sharp clear display. The 80 column mode "squishes" the pixels together which supposedly provides a higher resolution display.

Colors are seen as different shades of gray, but unlike my old black and white T.V. the shades are distinct.

I have been very pleased with the quality of the display of this monitor, however I had to return two different monitors to Wards before I found one that had a satisfactory display.

Listing for $99.99 the ZDS monochrome monitor is not an inexpensive cure for red eyes, but it certainly is more fun than a bottle of visine.

USING THE A&J MODEL 2000 STRINGY FLOPPY
Dick Wagner

We need a learning period for this machine much as we had to learn the solutions to using tape recorders for program storage. The PLOTTER newsletter is a good place to share information and experiences.

The A&J manual will get you started. Suggestions that follow will give you confidence and better use of your machine.

The manual states that you can store 9 files per tape. You can store more! Use the 2068 character set table. After 9 comes : so this is 10, then ; for 11, < for 12, etc. This gives more file numbers than you can use.

You can save more than one file with the same name but you will have trouble to VERIFY and to LOAD.

As caps and lower case letters can be use in a file name, the mix must be properly used for VERIFY and LOAD. You can use this feature to SAVE 2 or more versions or parts of a program as "sampler,Sampler,SAmpler" as each qualifies as a different name.

Numbers can be used as file names. Use @1,- as a file of line 1 REM. Next use @2,name and then various versions can be @3,3 @4,4 etc. Final file version might be @7,Name. If the first file is a version of the program development, then it can be @1,name. If you can get along with less than a 7 character name add a number corresponding to the file position.

To run an index on a wafer use LOAD "@" and the print-out will come up on the screen, even if you have a program in the computer. The advantage of using a common file #1, such as @- is now apparent. Just count from @- to find the number used for a particular SAVE. Useful also to see how many files are in a wafer as all will be between 1st @- and the next @- on the next loop.

When a commercal tape SAVE has been made, there may be more than 1 part saved ie: BASIC, SCREEN$, etc. This can be forgotten so first run an index on a wafer that you wish to add another progam to.

A wafer longer than 20 ft. works fine for developing a program that you will make several SAVES of. Then you don't need to be concerned about getting the END OF FILE message. Just use the examples above for a guide.

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FROM THE
EDITOR'S DESK-

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This month I decided that I was
tired of listening to myself, so
I am going to let someone else
do the talking. If you like,
substitute the word "newsletter"
each time you see the word "BBS"
amd exchange the word "Editor"
for the word "Sysop". The fol-
lowing can and does pertain to
both means of communication.

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EXCHANGE OF E-MAIL BETWEEN
SYSOP AND BBS USER:

WELL, JOHN, THE GOOD NEWS IS
THAT THE FAULTY FILE HAS BEEN
FIXED BUT THE BAD NEWS IS THAT
YOUR DOWNLOADING PRIVILEGES
HAVE BEEN REVOKED. I JUST WENT
THROUGH THE LAST TWO MONTHS OF
LOGS AND CAME UP WITH SOME
INTERESTING STATISTICS. DURING
THAT TIME YOU HAVE LOGGED ON 23
TIMES, DOWNLOADED 66 FILES AND
UPLOADED NONE. YOU HAVE CALLED
FOR CHAT TWICE, AND LEFT A
TOTAL OF TWO MESSAGES ON THE
BOARD, ONE REQUESTING A
SPECIFIC PROGRAM AND THE OTHER
INFORMING ME OF A DISK ERROR IN
A DOWNLOAD FILE. I CAN ONLY
DRAW THE CONCLUSION THAT YOU
ARE INTERESTED IN THIS BOARD
FOR ONE REASON ONLY -- TO RAPE
HELL OUT OF THE DOWNLOAD MENUS.
I'VE LEFT PLENTY OF MESSAGES
REGARDING PARTICIPATION IN THE
BBS AND THE MESSAGE BASE, BUT
YOU EITHER HAVEN'T READ THEM OR
ELSE YOU IGNORED THEM. SORRY,
BUT ONE-WAY STREETS JUST DON'T
HACK IT AROUND HERE. JIM.

JIM, I HAVE BEEN TAKING PART IN
THE BBS. EVERY TIME I LOG ON I
READ ALL THE NEW MESSAGES.
JOHN.

JOHN, I JUST CAN'T HELP BUT
FEEL THAT IN ALL THAT TIME YOU
COULD HAVE AT LEAST SAID "HI"
OR "THANKS FOR THE DOWNLOADS"
OR SOMETHING TO ACKNOWLEDGE
THAT THERE'S A REAL LIVE HUMAN
BEING ON THIS END..JIM.

EXCEPT FOR POWER FAILURES, MY
COMPUTER HAS BEEN CONTINUALLY
RUNNING SINCE NOV. 11, 1982,
AND HAS FIELDED OVER 12,000
TELEPHONE CALLS OPERATING AS A
BBS. BACK THEN, IT WAS A JOY
TO BE A PART OF THE REALM OF
COMPUTER TELECOMMUNICATIONS --
NOW IT'S A DRAG. IT SEEMS TO
ME THAT A "GIMMEE" ATTITUDE HAS
PERVADED THE WHOLE ARENA OF
BBSING, WITH CALLERS INTERESTED
IN NOTHING MORE THAN MATERIAL
GAINS IN THE WAY OF SOFTWARE.
MY BOARD IS FAR FROM THE
BUSIEST, BEING ISOLATED IN THE
"FOREIGN COUNTRY" OF MONTANA,
BUT AN AVERAGE DAY WILL SEE
ABOUT 20 OR 25 CALLS TO THE
SYSTEM. AN AVERAGE DAY WILL
ALSO SEE ABOUT THREE OR FOUR
MESSAGES (OF ALL TYPES,
INCLUDING E-MAIL) BEING POSTED.
THE TYPICAL LOG ENTRY SHOWS
SO-AND-SO LOGGING ON, GOING TO
THE FILE TRANSFER AREA,
DOWNLOADING SEVERAL FILES AND
THEN LOGGING OFF. THANKS,
THAT'S WHY I STARTED UP A BB ,
TO SUPPLY PEOPLE WITH FREE
PROGRAMS. REALLY MAKES MY DAY
TO SEE THAT I'VE SPENT ALL THIS
TIME AND MONEY JUST TO WATCH
PIGS AT THE TROUGH.

WHATEVER HAPPENED TO THE
COMMUNICATIONS IN
TELECOMMUNICATIONS? IS THIS
THE RESULT OF THE COMPUTER AGE,
THAT PEOPLE DON'T TALK OR
COMMUNICATE WITH EACH OTHER?
ARE WE GETTING SO TOTALLY IN
TUNE WITH OUR EQUIPMENT THAT
WE'RE EXCLUDING PEOPLE? IF SO,
THEN ORWELL'S PREDICTIONS ARE
TAME IN COMPARISON WITH THE
REALITY. WHO TOOK THE BULLETIN
BOARD OUT OF BULLETIN BOARD
SYSTEM? THE FILE TRANSFER
SECTION OF MY BOARD IS SHINY
FROM DAILY USE, BUT THE
BULLETIN SECTION IS OBSCURED BY
COBWEBS. THE THOUGHT HAS
CROSSED MY MIND MORE THAN ONCE
JUST TO LOAD UP A HOST PROGRAM
AND LET PEOPLE GRAB WHATEVER
PROGRAMS LOOK INTERESTING.

"DO YOU HAVE A LOGON CODE FOR
THIS SYSTEM (Y/N) ==> Y <=="
"WHAT IS YOUR ACCOUNT NUMBER?
775" "WHAT IS YOUR LOGON CODE?
PASSWORD" "INVALID LOGON CODE"
"DO YOU HAVE A LOGON CODE FOR
THIS SYSTEM (Y/N) ==> Y <=="
"WHAT IS YOUR ACCOUNT NUMBER?
305" "WHAT IS YOUR LOGON CODE?
PASSWORD"

ET CETERA, AD INFINITUM ET AD
NAUSEAM.

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HACKERS. OR SO THEY'D LIKE TO BELIEVE. VANDALS, PESTS, YES. HACKERS? THEY SHOULD BE SO TALENTED, DEVOTED AND LUCKY. WHY DO THESE COMPUTERIZED DELINQUENTS FIND SUCH DELIGHT IN TRYING TO BREAK INTO BULLETIN BOARDS? DON'T THEY REALIZE THAT SYSOPS ARE ORDINARY PEOPLE JUST LIKE THEMSELVES TRYING TO FIND A LITTLE ENJOYMENT IN THEIR HOBBY? WHY PICK ON ME? I'M SPENDING A LOT OF TIME AND MONEY TRYING TO PROVIDE PEOPLE A SERVICE FOR FREE, AND THEY WANT TO GO AND SPOIL IT FOR EVERYONE. HECK, IF THEY WANT ONTO THE SYSTEM, ALL THEY HAVE TO DO IS APPLY FOR A LOGON. WHY MAKE LIFE DIFFICULT FOR EVERYONE? LEAVE ME ALONE. GO PICK ON COMPUSERVE.

CALLER LOGS ON. LEAVES E-MAIL TO A FRIEND. LINES ONLY FILL HALF THE SCREEN, SO HE'S PROBABLY USING A COMMODORE 64. GOES TO FILE TRANSFER SECTION, AND SELECTS ULTRATERM PROTOCOL. CHOOSES A FILE THAT INDICATES IT'S A TRS-80 PROGRAM. BBS GOES TO SEND, HE FIGURES OUT THAT HE'S SOMEWHERE HE DOESN'T WANT TO BE AND DROPS CARRIER.

ANOTHER CALLER LOGS ON FOUR TIMES IN A ROW, BUT KEEPS LOSING CARRIER BEFORE HE CAN DO ANYTHING. PROBABLY PHREAKING ON A CHEAPIE PHONE SERVICE.

ANOTHER CALLER SUCCESSFULLY DOWNLOADS A FILE. SIT. WAIT. WAIT SOME MORE. SYSTEM EVENTUALLY TIMES OUT AND DROPS HIM.

I'M NOT THE MOST POLITE PERSON IN THE WORLD AND I'M CERTAINLY NOT ONE TO STAND ON CEREMONY, BUT I AM OLD ENOUGH TO REMEMBER WHAT MANNERS WERE. THEY ALSO WENT DOWN THE TUBES WITH "COMMUNICATIONS" AND "BULLETIN BOARDS." WHOOPS! DROPPED CARRIER! SO WHAT? IF IT'S A HALFWAY DECENT SYSTEM, IT'LL REBOOT. WELL, I'LL JUST GO TO BED WHILE DOWNLOADING THIS LONG FILE, THE SYSTEM WILL EVENTUALLY THROW ME OFF AND REBOOT. NEVER MIND THAT THERE'S OTHER PEOPLE WANTING TO CALL INTO THE BOARD. WHO CARES THAT THE SYSOP CLIMBS THE WALLS WHEN HE SEES SOMEONE DROP CARRIER OR TIME-OUT ON THE SYSTEM? LATELY I'VE GOTTEN TO THE HABIT OF DROPPING CARRIER ON MY END FOR THE WORST OFFENDERS. ONE GOOD HANG-UP DESERVES ANOTHER.

ALONG WITH ALL THE OTHER GOODIES THAT HAVE BITTEN THE DUST, THERE'S GOOD OLD APPRECIATION. AS I MENTIONED BEFORE, MY BBS HAS FIELDED OVER 12,000 CALLS. OUT OF ALL OF THEM, I HAVE GOTTEN MAYBE A DOZEN MESSAGES SAYING "THANKS FOR RUNNING YOUR BBS." THAT'S ABOUT ONE "THANK YOU" PER THOUSAND CALLS! UNFORTUNATELY, IT SEEMS THAT PEOPLE THINK THEY HAVE ALL THIS AUTOMATICALLY COMING TO THEM. IT'S THEIR RIGHT! SORRY TO DISILLUSION ANYONE, BUT THAT JUST AIN'T SO. THE MASTER SWITCH FOR THIS SYSTEM IS TWO FEET AWAY, AND I'M NOT SO DECREPIT THAT I CAN'T HIT IT IN A FLASH. ALTERNATIVELY, I CAN BAN ANYONE I WISH FROM MY SYSTEM. CALLERS USE THIS BBS AT MY FORBEARANCE ONLY, AND IT'S NOT A GOD-GIVEN RIGHT. IT'S A SYSOP-GIVEN PRIVILEGE! I SINCERELY FEEL THAT WE SHOULD PROCLAIM A "SYSOP APPRECIATION DAY." WE CERTAINLY DON'T GET ANY ON A DAY-TO-DAY BASIS!

DON'T GET ME WRONG. THERE ARE JOYS AND BENEFITS IN RUNNING A BBS, ALTHOUGH SOMETIMES IN MY NETHER MOODS I'M HARD PRESSED TO ENUMERATE THEM. BUT THE FACT IS, THERE HAVE BEEN MANY OCCASIONS WHEN I'VE RESTED MY FINGER ON THE SWITCH WITH THE IDEA OF GOING OFFLINE FOREVER.

NOW FOR THE MORAL OF THE STORY. I'M ONLY ONE SYSOP AMONG MANY, AND I'M NOT TRYING TO EVOKE SYMPATHY FOR MYSELF THROUGH THIS ARTICLE. THE POINT IS THAT ALMOST EVERY SYSOP AROUND HAS THESE FEELINGS TO SOME EXTENT OR ANOTHER. AND FURTHER, MOST OF THESE SYSOPS (ESPECIALLY THE BEST AND MOST DEVOTED ONES) ARE GOING TO REACH A SATURATION POINT AND WIND UP DEPRIVING THE GENERAL PUBLIC OF THEIR SERVICES. I FORESEE A DAY COMING, AND VERY SOON AT THAT, WHEN THE HIGH QUALITY BBS'S WILL BE ALL GONE. SO ALL THIS IS REALLY A PLEA FOR EVERYONE TO SHAPE UP THEIR ACTS BEFORE IT'S TOO LATE. IF NOTHING ELSE, WHEN YOU'RE ON A BULLETIN BOARD, LEAVE A LITTLE MESSAGE TO THE SYSOP. "THANKS FOR THE USE OF YOUR SYSTEM" OR "FINE BBS YOU HAVE HERE." LET THEM KNOW THEY'RE APPRECIATED. WHEN I SEE A MESSAGE LIKE THAT, I SAY TO MYSELF, "THAT'S WHY I'M DOING ALL THIS!" SYSOPS ARE REAL, LIVE HUMAN BEINGS WITH FEELINGS AND EMOTIONS. LET'S START TREATING THEM AS SUCH!

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EPILOGUE: TWELVE HOURS AFTER
THE ABOVE WAS WRITTEN, I FIND
OUT THAT ONE OF MY BEST FRIENDS
(WITH HIGHER THAN NORMAL ACCESS
TO THE SYSTEM) HAS ALLOWED A
THIRD PARTY TO USE HER LOGON.
THAT'S FORBIDDEN FOR ANYONE ON
MY BBS TO DO, BUT IT HURTS EVEN
MORE BECAUSE A VALUED AND
TRUSTED FRIEND WHO SHOULD HAVE
KNOWN BETTER WENT AND DID IT.
THAT'S THE FINAL STRAW. THE
MOST SIGNIFICANT BYTE BBS IS NO
LONGER IN EXISTENCE.

JIM ANDERSON, EX-SYSOP
THE MOST SIGNIFICANT BYTE BBS
BILLINGS, MONTANA
JANUARY 13, 1985

SURVEY

There always seems to be a
few who can criticize but few
who help out. After the dif-
ficulties that we had after the
last meeting, one person was
very upset that we were so dis-
organized. Yet, this person has
along with a majority of others
in our group, not taken great
enough interest in the group to
do so simple a thing as fill out
the survey sheet in last month's
newsletter. This survey is
important. We will be using it
to improve the newsletter and
our organization. Please take
interest and fill out and return
the survey. We can't help you
if you won't help us.

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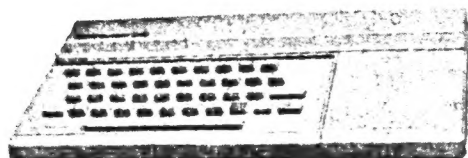
&&&&&&&&&&&&&&&&&
ZX / TS
P and R
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This month we are back with our
P & R column. Our first item is
from Bob Evans of our own group.
The second piece comes from Dick
Wagner and the last comes from
Dick Scoville first printed in
the Triangle Newsletter. ENJOY!

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At the last meeting one of the
members asked me about a BEEP at
the end of SAVE or VERIFY on
the 2068. Listed below are exam-
ples of both. I also included
one program for AUTO-VERIFY.
There are other veriations of
this but this is the one I use.

I use the BEEP with SAVE and
VERIFY so I can be doing other
things at the time I am SAVEing
and VERIFYing without watching
the screen all of the time.

EXAMPLES:

SAVE "NAME" LINE 1: BEEP .5,1

VERIFY "NAME": BEEP .5,1

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(cont. from Page 3)

A file can be deleted but
following files will not be
moved up. Assume the #3 file is
no longer needed but you want to
use that file name. Enter a sim-
ple line like 1 REM and SAVE as
@3,3. This overwrites the old
file beginning. If you run an
index you will show @3 and if
you LOAD you will show 1 REM. If
there is space you can insert a
program in this file space.
To find a file length allow
1200 bytes per second so start
time when the file name shows on
the screen and stop when the red
light on the micro drive goes
off. If the number of bytes per-
mits, a file can be moved up to
a deleted file.
Suggestions on the use of
other commands, SAVEing program
parts of commercial tapes, as
well other ideas will be consid-
ered in later PLOTTER news-
letters. This colume is yours to
air ideas on the use of the A&J
micro drive.

****

```
9993 PRINT AT 5,0;"You have indi
cated you wish to  exit this pro
gram."''"If you have made any ch
anges"
9994 PRINT ';"DO NOT FORGET TO R
E-SAVE ON TAPE";
9995 PRINT '"To SAVE this progra
m as changed,start recorder and
.press any key"
9997 PRINT "This Program and dat
a are being SAVED by the name "'"
"(NAME)" '"""
9998 PAUSE 0
9999 SAVE " (NAME) " LINE 1: CLS
: BEEP .5,1: PRINT AT 10,0;"REW
IND TAPE, THEN PRESS ANY KEY TO
VERIFY.": PAUSE 0: VERIFY " (NAM
E) ": BEEP .5,1: PRINT '"verifie
d okay...press any key": PAUSE 0
: GO TO 1
```

BOB EVANS

✳ ✳ ✳

A LOOK AT 1 REM
(T/S 1000 & ZX81)
Dick Wagner

Try this test for the address
and code numbers in a 1 REM
statement. Our first address
starts 16514 for the first code
number after 1 REM, and then
continues for each code number.
Randomly input any 10 code num-
bers between 0 and 255. The
corresponding characters will
show when RUN and ENTER are
pressed. Enter a number each
time L cursor shows and on 9/140
press ENTER to see the program
with the 10 periods replaced
with characters corresponding to
the code numbers you input.
Check with the character table.

To make your original numbers
appear use RUN 200 and they will
show along with addresses. Line
230 acts as a STOP because code
118 forces the computer to wait
for the next line and we have
only 1 line.

```
1 REM..........
100 LET N=16514
110 INPUT A
120 POKE N,A
130 LET N=N+1
140 IF N=16523 THEN STOP
150 GOTO 110
200 LET N=16514
210 PRINT N;"   ";PEEK N
220 LET N=N+1
230 IF PEEK N=118 THEN STOP
240 GOTO 210
```

Lines 1-150 make a simple
loader to put the numbers into
line 1. Lines 200-240 read line
1 and the address of each code
or character.

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REAL TIME CLOCK FOR YOUR TS2068

The TS2068 doesn't have a real
time clock built in. If you want
to keep time, here is a short
program that will track it for
you, even while running other
programs. The only limitation
the program imposes is that you
will no longer be able to use
the commands RUN, CLEAR or NEW.
If you should, you will erase
either the variables used by
your "clock" or the entire
program.

REAL TIME CLOCK PROGRAM

```
8400 REM *** TIME
8402 PRINT "INPUT": PRINT
8403 PRINT "HR  MIN SEC"
8404 INPUT U: INPUT V: INPUT W
8405 FOR I = 23672 TO 23674
8406 POKE I, 0
8407 NEXT I
8408 LET TM = 8420
8410 LET O15 = 60*60*(U-1)+60*
     V+W
8420 LET V = PEEK 23672/256 +
     PEEK 23673 + 256 * PEEK
     23674: LET U = U * 4.2585
8425 LET U = U + O15 + .5
8427 LET V = INT (U/3600)
8428 LET W = INT (U/60)-60*V
8429 LET U = INT (U-60*60*V-60
     *W
8430 LET V = V+1: IF V > 12
     THEN LET V = V-12
8431 CLS: PRINT "HR  MIN SEC"
8435 PRINT V; TAB 4; W ; TAB 8;
     U;" "
8436 STOP
```
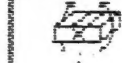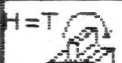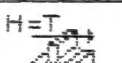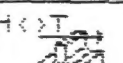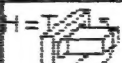
After you type in the program,
start by typing "GOTO 8400". It
will ask you for the current
time, which you enter, one value
at a time. As soon as you've
entered the second, it will
start keeping time. To ask for
time, type "GOTO tm"

If you wish to see the program
update the time on the screen,
change line 8431 from 'CLS' to
'PRINT AT 0,0;'. In line 8435
add ';"""' to the end of the
line. And change line 8436 to
'GOTO tm'. To end the screen
display, type "BREAK".

This program was created by Dick
Scoville and originally
published in the Triangle TS
User Group Newsletter. Our
thanks to both for permission to
bring it to you here.

WELD SELECTION TABLE 1

NEXT MEETING
Mac-N-Clair
Menu
Demonstration
&
Silicon Wafer
Seminar
%%%%%%%%%%%%%%%%%%

BE SURE TO COME!
BRING A FRIEND!
YOU WILL ALWAYS
PICK UP USEFUL
INFORMATION!!
****

COAT/S
1419 1/2 7th STREET
OREGON CITY,   OR   97045